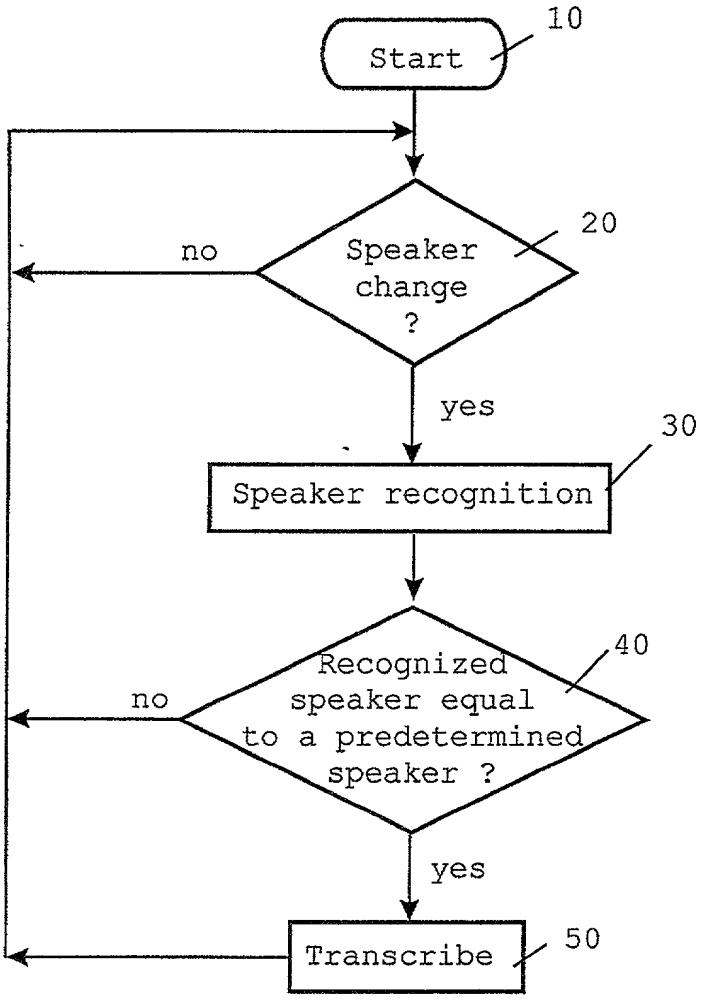
Start
10
Speaker change ?
20
no
yes
Speaker recognition
30
Recognized speaker equal to a predetermined speaker ?
40
no
yes
Transcribe
50

FIG. 1A

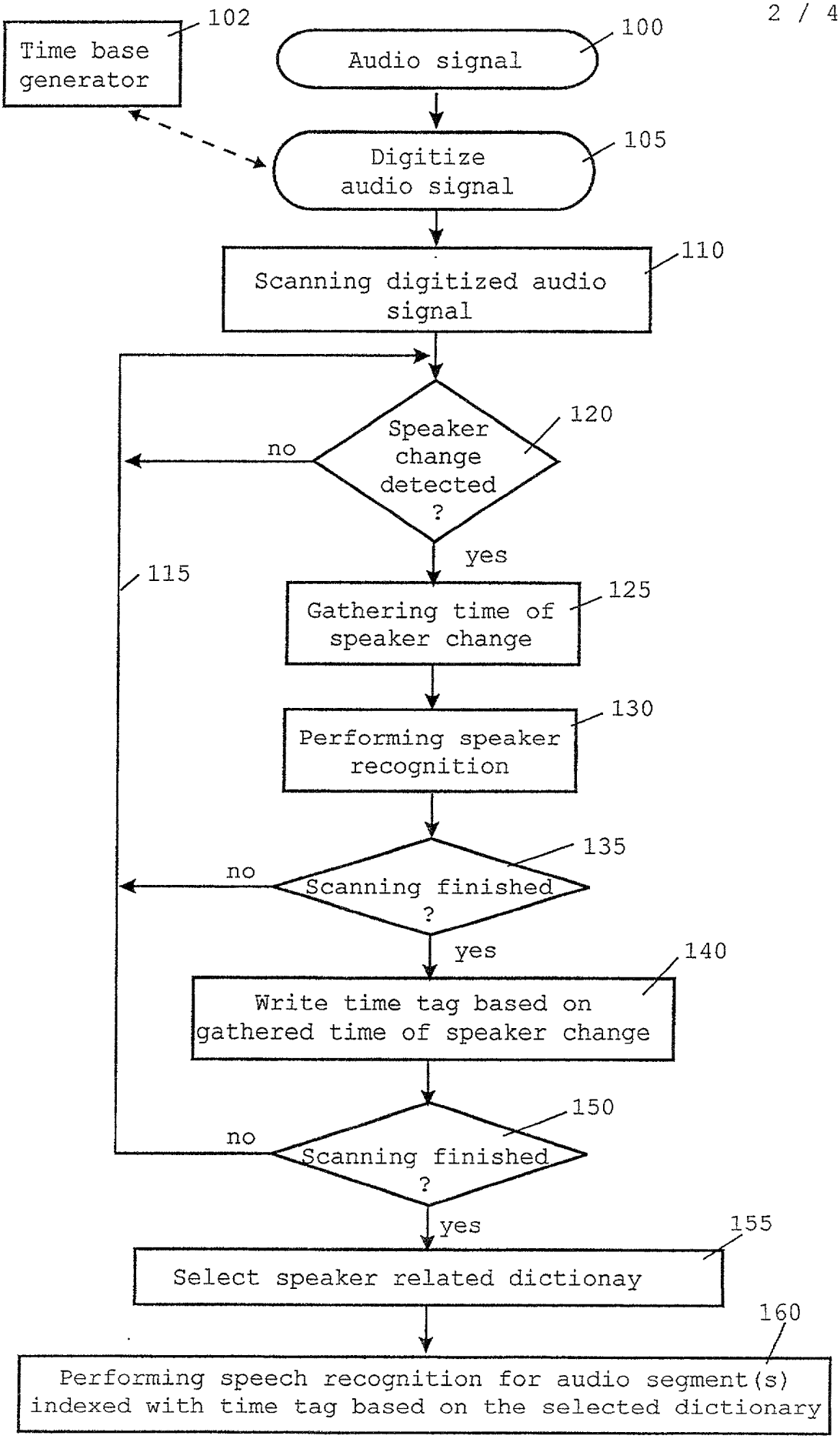
Time base generator
102
Audio signal
100
Digitize audio signal
105
Scanning digitized audio signal
110
Speaker change detected ?
120
no
yes
115
Gathering time of speaker change
125
Performing speaker recognition
130
Scanning finished ?
135
no
yes
Write time tag based on gathered time of speaker change
140
Scanning finished ?
150
no
yes
Select speaker related dictionay
155
Performing speech recognition for audio segment(s) indexed with time tag based on the selected dictionary
160

FIG. 1B

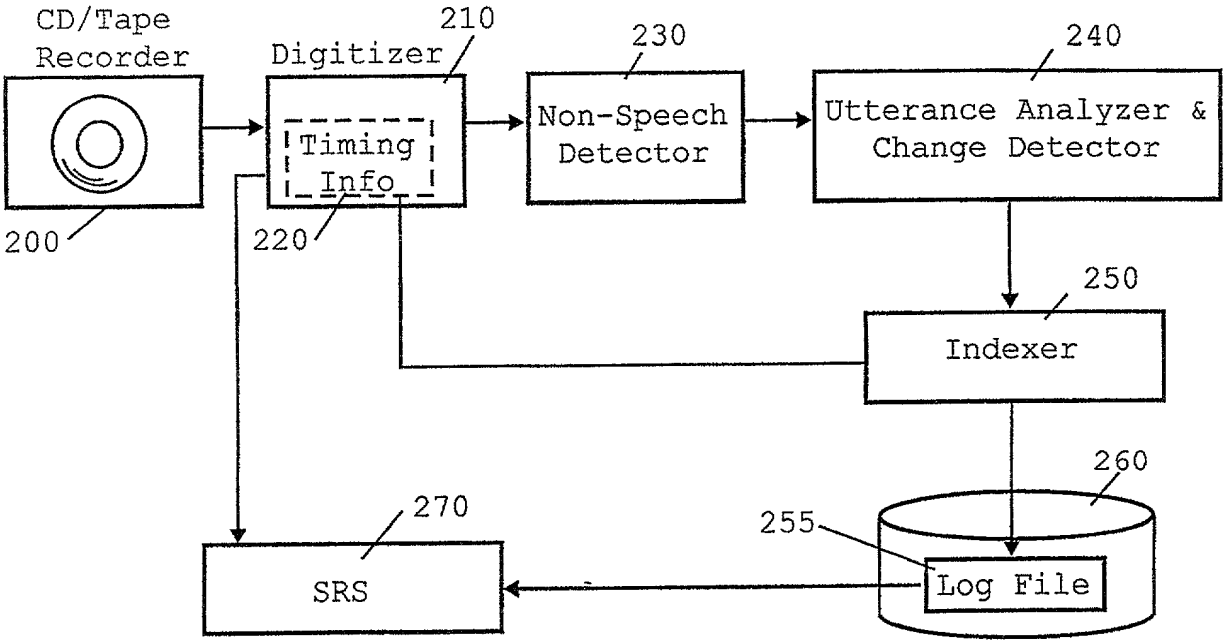
CD/Tape Recorder
200
Digitizer
210
Timing Info
220
Non-Speech Detector
230
Utterance Analyzer & Change Detector
240
Indexer
250
Log File
255
260
SRS
270

FIG. 2

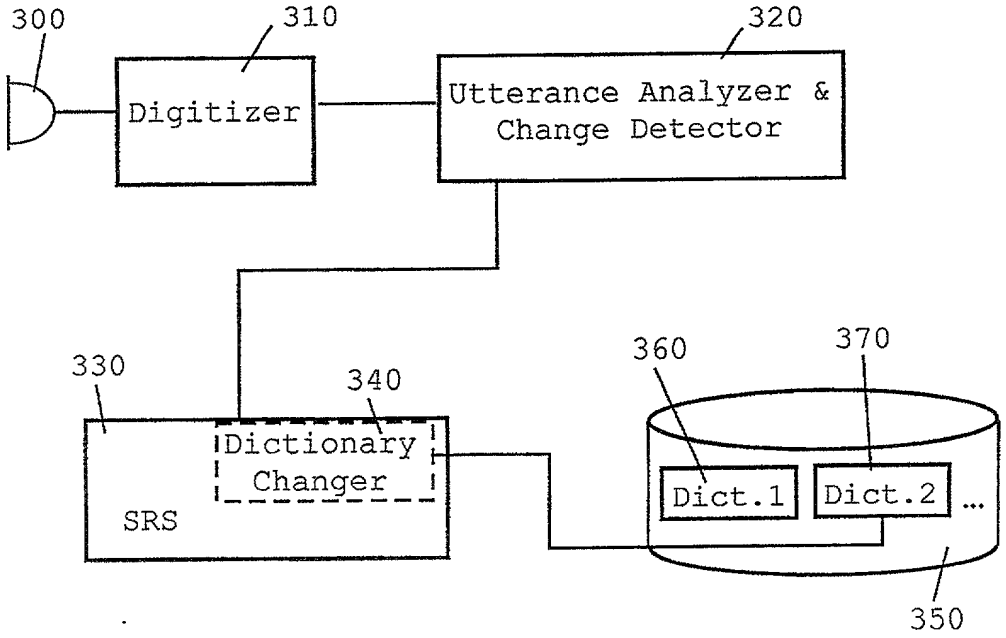
300
Digitizer
310
Utterance Analyzer & Change Detector
320
330
SRS
340
Dictionary Changer
360
Dict.1
370
Dict.2
...
350

FIG. 3

```
<transcript file="audio/20000510.log">
...
<begincall time="08:00:04:30"/>
<speaker id="s0127" starttime="08:00:04.30"
endtime="08:00:14:40">
<text>Satisfaction Guaranteed Phone Order
Department</text>
</speaker>
<speaker id="unknown" starttime="08:00:17.40"
endtime="08:00:30.30"/>
<speaker id="s0127" starttime="08:00:30.30"
endtime="08:00:34:00">
<text>To process your order I need your customer
number please</text>
<speaker id="unknown" starttime="08:00:40.30"
endtime="08:03:30.30"/>
<speaker id="s0127" starttime="08:03:30.30"
endtime="08:03:34:00">
<text>137532 and the address is Helga Mustermann,
Birkenweg 7, 12345 Dorf right</text>
<speaker id="unknown" starttime="08:03:04.30"
enditme="08:06:06.00"/>
...
<endcall time="08:10:25.01"/>
</transcript>
```

400 420 410 430 450 440 460 470

FIG. 4